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**Amended Claims With Markings Under 37 CFR §1.121(c)(3)**

Technology Center 2600

12. (Amended) A tuner, comprising:  
tuner circuitry to tune to various television frequencies carrying television  
video signals;  
a tuner module coupled to adjust the tuner circuitry to scan multiple  
channels within a particular locale for corresponding tuning frequencies, the tuner  
module storing the tuning frequencies for the particular locale;

[A tuner as recited in claim 11, wherein:]  
upon transporting the tuner to a new locale, the tuner module scans multiple  
channels within the new local for corresponding tuning frequencies; and  
upon transporting the tuner back to the particular locale, the tuner module  
retrieves the stored tuning frequencies to restore operation in the particular locale.

32. (Amended) A method comprising the following steps:  
receiving a reference to a country;  
selecting, based on the country reference, a set of channel-to-frequency  
mappings correlating channels to corresponding TV frequencies in the country;  
receiving a channel; and  
selecting, based on the channel, a TV frequency that maps to the channel[;].

1 All pending claims are listed below for ease of reference.

2  
3 1. A television tuner comprising:

4 a country table listing a plurality of countries;

5 multiple channel-to-frequency mapping tables correlating channel numbers  
6 to corresponding frequencies for associated countries in the country table, the  
7 channel-to-frequency mapping tables being indexed by the country table so that  
8 selection of a country in the country table references an associated channel-to-  
9 frequency mapping table for the selected country; and

10 a tuning device to tune to a particular frequency within the channel-to-  
11 frequency mapping table associated with the selected country upon selection of a  
12 corresponding channel.

13  
14 2. A television tuner as recited in claim 1, wherein the country table  
15 lists the countries according to a uniquely assigned country code.

16  
17 3. A television tuner as recited in claim 1, wherein the country table  
18 lists the countries according to an International Telecommunications Union (ITU)  
19 code.

20  
21 4. A television tuner as recited in claim 1, wherein the channel-to-  
22 frequency mapping tables also contain a television standard for the associated  
23 countries.

1           5.     A television tuning component for a television tuning system,  
2 comprising:

3                 a country table listing a plurality of countries; and  
4                 multiple channel-to-frequency mapping tables correlating channel numbers  
5 to corresponding frequencies for associated countries in the country table, the  
6 channel-to-frequency mapping tables being indexed by the country table so that  
7 selection of a country in the country table references an associated channel-to-  
8 frequency mapping table for the selected country and selection of a channel in the  
9 channel-to-frequency mapping table maps to a corresponding frequency.

10  
11           6.     A television tuning component as recited in claim 5, wherein the  
12 country table lists the countries according to a uniquely assigned country code.

13  
14           7.     A television tuning component as recited in claim 5, wherein the  
15 country table lists the countries according to an International Telecommunications  
16 Union (ITU) code.

17  
18           8.     A television tuning component as recited in claim 5, wherein the  
19 channel-to-frequency mapping tables also contain a television standard for the  
20 associated countries.

21  
22           9.     A television tuning component as recited in claim 5, embodied in  
23 software as a dynamic linked library stored on a computer-readable storage  
24 medium.

1 10. A television tuner incorporating the television tuning component as  
2 recited in claim 5.

3  
4 11. Cancelled

5  
6 *Sub* 12. (Amended) A tuner, comprising:  
7 *D1* tuner circuitry to tune to various television frequencies carrying television  
8 video signals;

9 a tuner module coupled to adjust the tuner circuitry to scan multiple  
10 channels within a particular locale for corresponding tuning frequencies, the tuner  
11 module storing the tuning frequencies for the particular locale;

12 upon transporting the tuner to a new locale, the tuner module scans  
13 multiple channels within the new local for corresponding tuning frequencies; and

14 upon transporting the tuner back to the particular locale, the tuner retrieves  
15 the stored tuning frequencies to restore operation in the particular locale.

16  
17 13. A television tuning system comprising:  
18 tuner circuitry to tune to various television frequencies carrying television  
19 video signals;

20 video decoder circuitry coupled to receive a television video signal from the  
21 tuner circuitry and to convert the television video signal to digital video data;

22 a tuner module coupled to adjust the tuner circuitry to a particular television  
23 frequency;

24 a video decoder module to decode the digital video data according to a  
25 particular video standard;

1 wherein the tuner module has a country table listing a plurality of countries  
2 and multiple channel-to-frequency mapping tables that provide video standards  
3 and correlate channel numbers to corresponding frequencies for associated  
4 countries in the country table, the channel-to-frequency mapping tables being  
5 indexed by the country table so that selection of a country in the country table  
6 references an associated channel-to-frequency mapping table for the selected  
7 country; and

8 wherein the tuner module selects a channel-to-frequency mapping table  
9 based upon input of a particular country and outputs a video standard to the video  
10 decoder for use in decoding the digital video data, the tuner module further  
11 selecting a television frequency from the selected channel-to-frequency mapping  
12 table based upon input of a corresponding channel and outputting the selected  
13 television frequency to the tuner circuitry to cause the tuner circuitry to tune to the  
14 selected television frequency.

15  
16 14. A television tuning system as recited in claim 13, wherein the  
17 country table lists the countries according to an International Telecommunications  
18 Union (ITU) code.

19  
20 15. A television tuning system as recited in claim 13, wherein the tuner  
21 module is embodied as a dynamic linked library.  
22  
23  
24  
25

1           16. A television tuning system as recited in claim 13, further comprising  
2 a second tuner module different from the tuner module, the second tuner module  
3 being used to replace the tuner module during upgrade without replacing the  
4 tuning circuitry and the decoding circuitry.

5  
6           17. A television tuning system as recited in claim 13, wherein the tuner  
7 module supports an application program interface to expose functionality of the  
8 tuner module to an application program.

9  
10           18. A television tuning system as recited in claim 13, wherein the tuner  
11 module stores a set of television frequencies that map to corresponding channels  
12 within the particular country for subsequent retrieval.

13  
14           19. A television tuning manager for a television tuner, the television  
15 tuning manager being implemented in software stored on a computer-readable  
16 storage medium, the television tuning device comprising:

17           a country table listing a plurality of countries;

18           multiple channel-to-frequency mapping tables correlating channel numbers  
19 to corresponding frequencies for associated countries in the country table, the  
20 channel-to-frequency mapping tables being indexed by the country table so that  
21 selection of a country in the country table references an associated channel-to-  
22 frequency mapping table for the selected country;

23           a code segment to select a channel-to-frequency mapping table based upon  
24 input of a particular country; and  
25

1 a code segment to output a broadcast frequency from the selected channel-  
2 to-frequency mapping table based upon input of a corresponding channel.

3  
4 20. A television tuning manager as recited in claim 19, wherein the  
5 country table lists the countries according to a uniquely assigned country code.

6  
7 21. A television tuning manager as recited in claim 19, wherein the  
8 country table lists the countries according to an International Telecommunications  
9 Union (ITU) code.

10  
11 22. A television tuning manager as recited in claim 19, wherein the  
12 channel-to-frequency mapping tables also contain a television standard for the  
13 associated countries.

14  
15 23. A television tuning manager as recited in claim 19, further  
16 comprising a code segment to store a set of broadcast frequencies that map to  
17 corresponding channels within the particular country for subsequent retrieval.

18  
19 24. A television tuning manager as recited in claim 19, embodied as a  
20 software dynamic linked library stored on a computer-readable storage medium.

1           25. A television tuning manager as recited in claim 19, embodied as a  
2 computer software module that is dynamically accessible by an application  
3 program, the television tuning manager further comprising an application program  
4 interface to expose functionality of the television tuning manager to the  
5 application program.

6  
7           26. An application program interface for a television tuning system, the  
8 application program interface being embodied on a computer-readable medium  
9 and having methods for performing the following functions:

10           setting a current TV channel;  
11           retrieving the current TV channel;  
12           setting a country code;  
13           retrieving the country code;  
14           setting a storage index for regional channel to frequency mappings; and  
15           retrieving the storage index.

16  
17           27. An application program interface for a television tuning system, the  
18 application program interface being embodied on a computer-readable  
19 medium and having methods for performing the following functions:

20           retrieving all analog video TV standards supported by the tuning system;  
21           retrieving a current analog video TV standard in use;  
22           setting a current TV channel;  
23           retrieving the current TV channel;  
24           retrieving highest and lowest channels available;  
25           scanning for a precise signal on the current TV channel's frequency;



1 setting a country code;  
2 retrieving the country code;  
3 setting a storage index for regional channel to frequency mappings;  
4 retrieving the storage index;  
5 retrieving a number of TV sources plugged into the tuning system;  
6 setting a type of tuning system;  
7 retrieving the type of tuning system;  
8 retrieving a current video frequency; and  
9 retrieving a current audio frequency.  
10

11 28. A method comprising the following steps:

12 receiving an ITU (International Telecommunications Union) code for a  
13 particular country; and

14 selecting, based on the ITU code, a set of TV channel-to-TV frequency  
15 mappings for use in the particular country.  
16

17 29. A method as recited in claim 28, further comprising the step of  
18 selecting, based on the ITU code, a TV standard for use in the particular country.  
19

20 30. A method as recited in claim 28, further comprising the step of  
21 storing the selected set of TV channel-to-TV frequency mappings.  
22

23 31. A computer-readable medium having computer-executable  
24 instructions for performing the steps in the method as recited in claim 28.  
25

1 *Sub* 32. (Amended) A method comprising the following steps:  
2 *D'* receiving a reference to a country;  
3 selecting, based on the country reference, a set of channel-to-frequency  
4 mappings correlating channels to corresponding TV frequencies in the country;  
5 receiving a channel; and  
6 selecting, based on the channel, a TV frequency that maps to the channel.

7  
8 33. A method as recited in claim 32, further comprising the step of  
9 tuning to the TV frequency.

10  
11 34. A method as recited in claim 32, wherein the country reference is an  
12 ITU (International Telecommunications Union) code.

13  
14 35. A method as recited in claim 32, further comprising the step of  
15 selecting, based on the country reference, a TV standard for the country.

16  
17 36. A method as recited in claim 32, further comprising the step of  
18 scanning for a better quality frequency within the channel.

19  
20 37. A method as recited in claim 32, wherein the step of selecting a set  
21 of channel-to-frequency mappings comprises the following steps:

22 looking up the country in a country table that lists multiple countries; and  
23 indexing from an entry for the country in the country table to a particular  
24 channel-to-frequency table, the particular channel-to-frequency table containing  
25 mappings of channel numbers to TV frequencies for the country.

1  
2 38. A method as recited in claim 37, wherein the step of selecting a TV  
3 frequency comprises the step of looking up in the particular channel-to-frequency  
4 table a TV frequency that corresponds to the channel.  
5

6 39. A computer-readable medium having computer-executable  
7 instructions for performing the steps in the method as recited in claim 32.  
8

9 40. A method comprising the following steps:  
10 configuring a tuning system for operation in a first locale by determining  
11 tuning frequencies for an associated set of channels;  
12 storing the tuning frequencies for the first locale;  
13 upon transporting the tuning system to a second locale, reconfiguring the  
14 tuning system for operation in the second locale; and  
15 upon transporting the tuning system back to the first locale, retrieving the  
16 stored tuning frequencies to restore operation in the first locale.  
17

18 41. A method as recited in claim 40, wherein the configuring step  
19 comprises the step of scanning for optimal tuning frequencies for the associated  
20 set of channels.  
21

22 42. A computer-readable medium having computer-executable  
23 instructions for performing the steps in the method as recited in claim 40.  
24  
25